

FILE
1915-16

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Fiji Islands.

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Forest Hills,
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~~and~~ ^{law.}

Osgood
 Newell
 Paine
 Parker, G.H.
 Bailey, J.W.
 Briggs, Dean, L.B.R.
 Univ. Hall, Cambridge, Mass.
 Write in Middle & End of Year.

Simott, E.S.

Ellis

Robertson

Hoover

slice L.R.

Visher S.S.

✓ Jackson
Boston

sh.
 Michigan
 rd
 e
 law.

Fish, Harold.

Moore, J. D.

✓ Davis, W.M. 31 Harbton

Barbour

Phillips

✓ Wright, S.G.

Briggs

Dean, L.B.R.

Univ. Hall, Cambridge, Mass.

Clapp.

✓ Carnochan, S.G.

White, C.

Castle, W.E.

School.

With the aid of the fund given to the university by Mrs. Amey Richmond Sheldon, the Harvard division of geology has sent W. G. Foye, assistant in the division, to Fiji. In that archipelago he will study the coral reefs, the uplifted limestones and the volcanic rocks. He will soon be joined by W. M. Mann, of the Bussey Institution at Harvard. Also as a Sheldon fellow, Mr. Mann will specially consider the distribution of organic species in its relation to the origin of the islands and reefs. Their joint investigation is planned to last nine to twelve months. Another Sheldon fellow, Sidney Powers, is spending six months on an investigation of the volcanoes and igneous rocks of the Hawaiian Islands.

DR. JOSEPH E. POGUE associate professor of

Wright, Charles R. to Thos Cook & Son.
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Paine.

Parker, G. H.

Bailey J. W.

Briggs, Dean, L. B. R.

Ames, Hall, Cambridge, Mass.

Write in Middle & End of year.

Sims, E. S.

Ellis

Robertson

Hoover

slice L. R.

Visher S. S.

Clapp.

Carnochan S. S.

White O.

Castle W. E.

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Peter J. W.

J. P. Berry. C. S. R. Co. Fiji.
("Results.") Labasa
or Sydney

R. W. Vollmer, Levuka, Fiji
(Temp. Nadarivatu). A. I.

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S.S. Fiji April.

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C. H. Wright.
Dept. Agric. Suva, Fiji

J. E. Stock.
Toorak Amy St. Suva.

C. W. Baker. Rabara L. Lan. Fiji.

J. P. Jefferson. Suva.

A. W. Lemos.
Lakelba, Lan. Fiji.
Photos. Australian ants

Dr. Trotter. Scotland
Int. Labor House, Perth.

"stamps"

H. Wier. Tavuni. Quacacula (Ino.)

J. Rimmer. Naujanith
Nauva, Fiji.

E. T. Wilson. Fiji.
Kadavu. Reading matter
Sweet corn seeds, etc.

For I. W. Bailey

Collections of Woods.

Twigs & mature wood of the following families:
Stereuliaceae *Tena* *ma* *alava*; *Taner*
Malvaceae *Beli*, *mu* *malo*, *vandam* *dama*.
Tiliaceae *siti*; *gai*; *gai*; *gai*; *gai*
Saxifragaceae *Urga*; *Uatahata*

Twigs & mature wood of the following species:
Rhytidandra *vitensis* ←
Casuarina *equisetifolia* *nobo* - *nobo*

Gnetum gnemon.
Wood of the following genera:
Rhizophora *karoo*,
Haplopetalon -
Mesopanax

Bakeria
Pelagodendron
Carruthersia
Canthiopsis
Amarouria
Smythea *var* *longifolia*
Paphea
Trimenia
Graeffea
Richellia -

Photos.

Josia Rawasam. Glasgow,
Dr. Spence. (man with club.)

R. C. Friend. Madarivatu.

Winter Holiday in Fiji.
Brommell?
Chas. H. Kelly. London

Simeoni Nada knita ^{vu} ocki.
H.M.P. London, Sava Kasa.
Tai Lern. ~~Math.~~ Fiji
"Picture post cards."

G. C. Barret. Mainaue, Fiji
Seeds Madagascar. West Indies.
Cuban tobacco seeds.
"Saturday Evening Post"

R. H. Woodless. Sakula San
Sat. Eve. Post Card Rev. of
Other magazines 6/2
Drawing paper in loose leaf
book & paper (B. & W.)

Cats of Fiji.

Camponotus

cristatus Gray

♂. L. 7.5. Black, shining; mandibles, antennae & apex of tarsi ferruginous; mandibles finely & densely striate & sparsely punctate. Head conically rugulose, with long erect pile; ^{not} ~~not~~ scarcely convex, ^{vix} occiput ~~marginata~~. Clypeus not carinate, not produced anteriorly & not exsert. Thorax conically-rugulose, almost naked, ~~mo-~~ ^{o-} epinotum formed into a thin lamella. Petiole symmetrical, oval; laterally wedge shaped, ^{not} ~~margined~~ above. Tarsi ^{not} ~~not~~ transversely striate, with long erect yellowish hairs & appressed yellow pubescence. Legs finely rugulose, without ^{not} ~~not~~ hairs. Anterior femora incrassate.

Qoulam. 1 ♀.

7

Camponotus
laminatus Mayr.

♂. L. 6 mm. Castaneo-ferruginous, shining, sparsely pubescent. Head & gaster black, mandibles ferruginous; head anteriorly obscurely red; tarsi ferruginous. Mandibles densely finely striate; sparsely punctate, with blades indistinctly dentate. Head finely rugulose, above hardly convex; occiput slightly emarginate. Hypopygium not carinate, not produced & exserted. Thorax finely rugulose. Mesos, base of epipharynx compressed, into vertical lamella, posteriorly produced into a triangular tooth, with petiole scale-like, sub-oval, triangular, convex in front, flat behind, upper margin acute. Gaster finely transversely rugulose striate, with some red, long yellowish hairs, & very sparse pubescence. Legs (abdomen) erect pubescent. Tibiae compressed & dilated.

1 ♀ Ovalum

Camponotus
schmeltzi Mayr.
L. 5.4 mm. Black, shining, tips of mandibles ferruginous; antennae ferruginous; legs infuscate. Mandibles sparsely punctate; distinctly striate at apex. Head finely rugulose, with a few erect hairs, & long appressed pubescence; above & below strongly convex; vertex distinctly depressed, moderately emarginate. Thorax finely rugulose, without erect hairs with sparse yellow pubescence. Mesos & base of epipharynx compressed. Petiole sub-cubical, weak, depressed convex in front, the disc above rounded, triangular. Gaster densely finely rugulose striate transversely, with moderately abundant long erect hairs, & shorter sparse pubescence. Legs without hair.

♀ Ovalum.

Colobopsis dentata Mayr.

♂. 3.5 - 3.8 mm. Black, sub-glabrous; mandibles, thorax & petiole ferruginous. Clypeus obscurely ferruginous; antennal & femora ferruginous; tibiae & tarsi testaceous & a little infuscate. Head coarsely reticulate-angulose & densely, finely punctate, anteriorly obliquely broad truncate (but not distinctly). Mandibles are somewhat dilated, finely striate & sparsely punctate. Thorax coarsely reticulate-angulose, wedge-shaped; in front twice as broad as behind; above with a median carina which is interrupted longitudinally. Mesos-epinotal suture impressed. Pronotum much broader than long, the disc flattened. Mesonotum with a transverse carina. The epinotum densely punctate; sub-cuboidal, longer than broad, the base horizontally, trapezoidal; behind with two obscure spines. Petiole densely

punctate; sub-cubical, above armed with two erect teeth. Gaster very shining, finely transversely rugulose striate, with sparse fine appressed hairs.

♀. Ovalare

Odontomachus angulatus Mayr.
♀ L. 12.5 mm. Absently castaneous,
shining, sub. glabrous. Head,
mandibles, antennae & legs ferruginous.
Mandibles strongly dentate,
with two large apical teeth &
a third smaller intermediate.
Space between antennae & eyes
smooth. Front & frontal area
densely striate. Vertex smooth,
longitudinally subciliate. Pronotum
smooth. Gaster & spinotum finely
transversely striate. Petiole
almost smooth, the corners angulate
anteriorly above.

♀ Ovalum

Pheidole oceanica Mayr.
L. & H. L. 4-4.4 mm. Rufous yellow.
Gaster infuscated at middle &
posteriorly. Mandibles smooth,
sparingly punctate. Head strongly
striate; behind depressed &
angulate reticulately; sides above

eyes reticulate-striate. Clypeus
almost smooth, shining, with
a short median carina, emarginate
anteriorly. Scape moderately long,
surface slender narrow. Thorax
rugulose. Pronotum sub-globose.
Mesonotum transversely "grooved"
at middle. Epinotal spines
long, erect. Tibiae & scapes
with erect pubi.

♀ L. 1.3. yellow. shining.

Glabropeis oceanica Mayr.
♀ L. 10 mm. Shining, ruf. cast.
anterior. Head castaneous, front,
vertex & abdomen pilous. Sparsely
pilose; scarcely puberant. Mandible
finely striolate; sparsely punctate.
Head finely coriaceous, not
strongly obliquely truncate in
front. Clypeus vertical, finely
striolate. Front almost smooth,
with a few very fine punctures.

Clypeus quadrangular, scarcely longer than broad, flat, without a median carina. Cheeks convex.

Thorax unarmed, microscopically coriaceous. Petiole with a minute, erect thickened scale, thicker than high. Gaster finely rugulose.

Wings. L. 9 mm. subhyaline.

~~Venae~~ & stigma & costa ochraceous
(Ovalan.)

6

Colobopsis carinata Mayr.

Soldier. L. 7.5. Fuscous - pubescent. Shining. Head in front castaneous, behind (of the mandibles) obscurely castaneous - fuscous. Intertarsal ochraceous. Posterior coxae & trochanters pale; femora, fuscous; geniculae, tibial & tarsi testaceous, with very sparse erect pile. Subtially

coriaceous; mandibles punctate & finely rugose striate. Clypeus convex behind, with short longitudinal rugae; median carina entire, acute. Cheeks ~~antennal~~ fossae to the clypeus, obliquely rugose, the rugae short. Head in front not strongly obliquely truncate. Clypeus prominent. Thorax has at middle & posteriorly compressed. Petiolar scale oval, & hardly marginated.

(Ovalan)

Camponotus

mfifrons Smith

♂ major. L. 5.6 mm. Fuscous-piceous. Head in front of mandibles ferruginous. Intertarsae, epiphysis (in part.) petiole, node & legs, mfs. ferruginous. Scarce pubescent microscopically pubescent

Mandibles strongly reticulate rugose.
Head in front obliquely flattened,
with an acute crenulate margin.
Ocypus, cheeks & front strongly
reticulate rugose. Third
half of head finely coriaceous &
shining. Ocypus not carinate,
slightly narrowed in front. Thorax
shining & finely coriaceous, with
sparse punctures. Sutures ~~not~~
not distinctly impressed. Epinot-
um unarmed. Node thick,
sub-quadrangular, unarmed;
margin rounded. Gaster smooth
& very shining.

Ovalan & Tonga.

Cardicordyla mordax Mayr.

♂. Length 2.2. Fuscous; legs blackened.
Legs lighter; head & gaster
darker.; mandibles, antennae
& tarsi ochraceous; antennal
club darker. Body without erect
pile, but with sparse pubescence.
Mandibles longitudinally striate.
Head sub-apagone. Eye pens
convex. Frontal area & frons
rugose. Antennae 12-jointed.
Thorax sub-shining, finely
reticulate punctate. ("exspar-
atus"). Goss-epinotal suture
impressed. Episotum with
two triangular teeth. Post-petiole
oblique-roundate. Abd. Gaster
smooth & shining.

Ovalan.

Sphingidae

Macroglossum hirundo var.
vittense Bruce.

Small, robust, Hemaris-like.
Hind wings with yellow bands;
tufted tails. Day-flier.

Cephonodes hylas Bruce.
Clear wing. Abdomen with two
red spots. Day-flier.

Chionis

Hind wing yellow, with a
narrow marginal band. Front
wings rich brown, with darker
markings.

Delphylla

Oxyambulyx

Falcate fore wing, with
marginal lines; even, rounded
black spot sub-basally; yellow

Sphingidae 2.

under wing, brown. upper
wing. (Solomon Islands)

Therestra.
Front wings variegated,
brown.

Rhagastis.
Olive brown; dotted fore
wings.

Cechenena
Barred brown forewings;
black blotch in hind wing.

Psilogramma jordani Beth. Baker

Cints.

Black Campionatus from Cabara.
Both species found running on
leaves in the thick bush. Found
in central basin of island. Very
timid & active. Drop to the
ground.

Odontomachus. Cabara.
The red headed ones come out in
the bush & run about on the
leaves.

Camp. laminatus. Iagasan.
In large hollow stems.

C. cristatus.
Small stems.

Iagasan.

Iridomyrmex sp. Savuini.

In the woods above Mackenzie's place and on the crest of the mountains back of Waigeo & near the lake the species was common nesting always in *Myrsinodria*. One bulb which had been lying on the ground for six weeks Mackenzie thinking it was an orchid & wanting the ants out - still had quantities of ants in it.

All the bulbs that I was able to examine - a half dozen - sheltered the ants. Sometimes a number of the plants are in a single tree.

Wainuu.

Found in hollow twigs of "yasi yasi"; a very hard wood

Campylostelus. Red from Bega, Kasauri, Lakeba, Kadavu, etc.

Lives in crevices & beneath bark of "ivi" tree, where it is always associated with a soft scale. Sheds of petals material built over the scale are probably done by the ants, though the scale generally lives beneath bark.

Emochetus, sp. Savigni

After rains it is fairly common in small nests beneath stones in shady places. Active in life.

Laserna.
Beneath bark.

Phryacaces? *Laserna*.

In ground beneath edge of stone.

Mosogo. 1 ♀ in some type of country, rather boggy.

Hyrmecina Savigni

The large colony was found beneath a rather deeply imbedded stone, in company with the small red yellow Camponotine & a single specimen of *Strumigenys*. (See further notes!)

Hyrmecina. small brown.

Laserna
Colony beneath bark with ♀ & larvae. Another colony next day in same situation.

Phidole? thick, black.

Four soldiers & workers with ^{above} ~~some~~ ant. Very slow in its movements. *Laserna*.

6.

Strumigenys sp.
Rewa, Memia, Tavuni.
Lasema.

In fairly populous colonies
beneath stones; in more
or less open land - not
in the bush.

Those from Lasema were in
the bush along a bullock trail.

7
Solenopsis?
Small yellow hymenae. Tavuni.

Found in small colonies beneath
stones, always with other ants,
in open fields. Many
workers and two queens were
taken.

Lasema.

Ponerine. Long, slender.
yellow.

Tavirini.

Four specimens taken, one
each beneath four stones
in the earth, not on the
stone. Hyphagaeic. after
rain, in bush.

A small colony found
same situation & several
single ♀ & ♂ at Radaiavate.

Ponerine. Large, Poneia-like.
Platythorax?

Tavirini.

One small colony with larvae
& one populous colony were
found in the bush beneath
stones. When touched, the
workers roll up, like
Cyparium, simulating
death. They make no
attempt to sting.

Dear above.

Colony from Radaiavate, beneath
stones, many pupae. In
observation nest.

Ponerine. Ectatominal?

Tavuni.

Very small colonies - less than a dozen individuals beneath stones in bush.

Very slow in movement. Active with its sting.

Ponerine. Trachymesops?

Lasenra.

Beneath Bark & in rotten wood. Apparently in very small colonies.

Many more from various localities, mostly in rotten wood.

Leptogenys? Lueca

2 ♀ beneath stone

Same species common at Nadavatu beneath stone in wet places. Food: myriopods & earthworm

Plagiolabis longipes Jord.

One might blame this ant for the scarcity of others, if other species did not live under the same stones with it. It lives in all possible situations & at all of the lower altitudes. At Taviumi it was not found high on the crest of the hills.

Some empty shells of *Bulinus* placed in a straw case for 3 weeks at Tunisea had a flourishing colony of the ant, with larvae & pupae.

Myrmecina

Laserna
Taken under a stone. The workers, both in this nest & the one at Taviumi exuded from the anal glands a frothy looking & matter, resembling very small worms. This was deposited about the nest. It comes like feces, very rapidly & cums. It is viscid to the touch.

1 ♀

Suene.

At Wajomita I observed one ♀ stand still & eject a thread three quarters of an inch in length & immediately afterwards another a half inch long. Sometimes they eject it when moving, but generally they

(see opposite next page)
Myrmecina? slender

Suene

1 ♀ Beneath stone

Another at Wajomita beneath stone in forest.

Rhopalothrix.

Sugars

Rather large colony beneath stone in forest. Very slow in movement; death beginning; difficult to see.

Four ♀ & were taken again at Waiyanita from beneath a log. I could not locate the nest. Several ♀ & a ♂ were beneath a stone at Hadaivatu.

Not uncommon, but very hard to see.

Nasoga. Watched one [♂] perform about its nest entrance in a red clay bank. It went in & I could find neither ants nor nest.

Gymniciidae (cont from last page) ⁽¹³⁾
stop running. When they the ants remain motionless on black earth the threads are seen before the ants.

16

Camponotus sp. Black, with -
out compressed epinotum.

Waiyanite.

Holds gaster flat over
back while running.

Very common in forest
at Radavata, but
I have not been able
to get at a nest, which
are built in the highest
trees.

17

(~~Colobopsis~~)
Camponotus mandella sp. n.
dark red thorax & legs.

Waiyanite
Common in twigs in the
forest. Diurnal. 24 specm.
To be named after
Mrs. Mand T. Skinner, who,
with her engineer husband,
has penetrated all parts of
Yavema Liva & Viti Liva,
traveling more than any
other woman through the
interior.

Epopostruma sp.
 A large colony from beneath
 two stones at Wanganarie.
 Several from Nadawatoo,
 from rotten logs & beneath
 stones, but generally "
 between them.
 The ~~st~~ individuals remain
 still when the nest is
 uncovered, or move very
 slowly.

They construct a sort of
 wall, very thin, of mud,
 about the nest & the
 broad chambers are separated
 off.

I have some in our
 observation nest. They are
 constructing a wall along
 the sides of the jar.

ka niv niv.
 Kadavu name for small
 ants. *T. melancephalum*

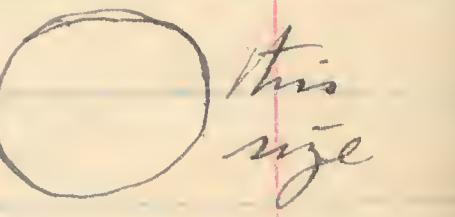
kadi
 kasivi

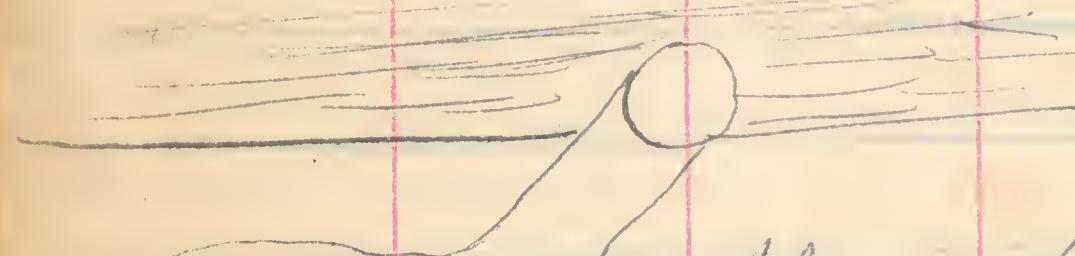
Odontomachus sp. possibly
angulatus Mayr.

Padarivatu.

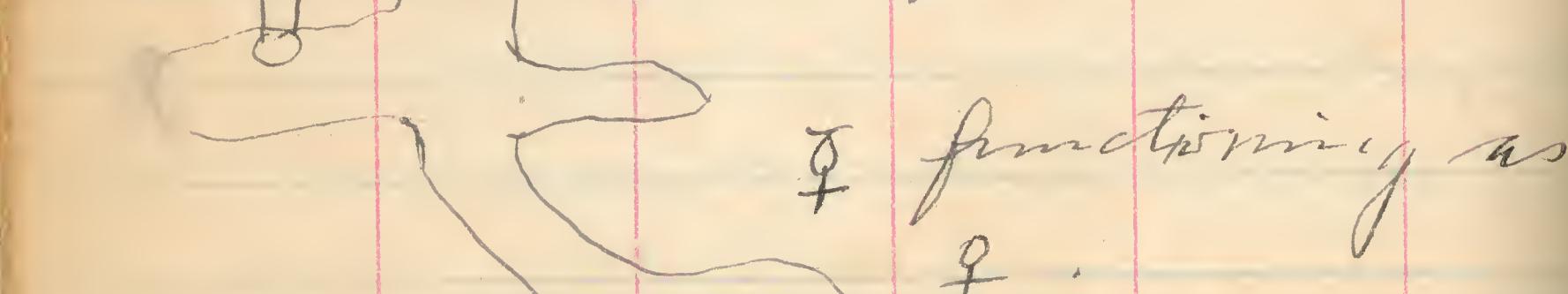
In wooded canyons to the north
of the station, some distance
down the sides of the mountains.
The ♀ forages during the day-
time.

Nests are in the ground;
beneath stones or among the
roots of trees, and complicated
nests, with broad flat chambers.

Entrance circular.  this size.

 Colonies
populous

plan of nest.

 ♀ functioning as ♀.



Empedoidea.

Taviri.

On the higher hills, mostly
in high trees, but at the
Lake some were about seven
feet from the ground.

Covered with bristles.

Always containing Indomyrmex.

Myrmecodia

Nadarivatu.

"seki seki."

In high trees. Not bushy
Many without nests. but
with scorpions, myriapods
& spiders.

No definite ant in these
but many species.

Used in "dram ni kan."

Pasogn. Jan.

Twenty nests examined. Several
Phidole colonies. One black
Camponotus; many empty. One
with four gecko eggs
~~be~~ fungus. Used as medicine for
deafness.

Nadarivatu 1.

Small Myrmecine, nests in very
small colonies in small pockets
in damp earth beneath or between
stones in the brush.

Nadarivatu No. 2

Phidole. Found beneath stones
in damp places. Very sluggish.

Nadarivatu No. 3.

Myrmecide. Mr. Friend pointed
to a clay tunnel & pointed said
it was an ant nest. I dug
in and found this single
worker. Doubt it is making the
tunnel.

Nadarivatu No. 4

Ponerine. Large colony, beneath
a stone in a small pocket.
The pocket was an inch and
a half in diameter and two
thirds of an inch deep and

was packed full of larval, mixed with the ants. A small hole in the bottom of the pocket led into a large (one inch in diameter) passage, extending vertically into the ground. It went deep, for I dug over a foot without finding bottom. The ants do not simulate death, but move ~~backwardly~~. The worker-like individual, a callow, was among the larvae. It being a callow is interesting.

Gadawatn. No. 5

Myrmicine. This is the one I have hitherto found only a ♀ at a time. This nest was ~~be~~ in a log, on the under side, beneath a piece of bark.

Kosogo. No. 1.

Small Myrmicine ♀ & beneath betw in crack in stone.

Kosogo. No. 2.

Red Myrmicine, nesting in little pockets in red clay bank, small groups of ants with larvae in little chambers. Extensive nest.

Koro Vatu. No. 1.

Odontomachus. Nesting in holes in clay bank. Constructs small earth hills, loosely thrown out, with many entrances.

26

27

28

29

30 July: "liva ni gela"

Jukid. Big, white-headed.
Padarivat.

Abundant secretion from
along the sides. ~~the~~ lot
that I placed in a box
were killed by it.

Mr. Friend states that he
saw a hog eat one while
grubbing and die a
little while afterwards,
about three hours.

Frogs.

51

Nyla. 4 brought me at Nasogn
by a native, Atikini, who
found them on leaves while
clearing his plantation. He
brought 30 eggs also. On wild
dalo (gomi tana)

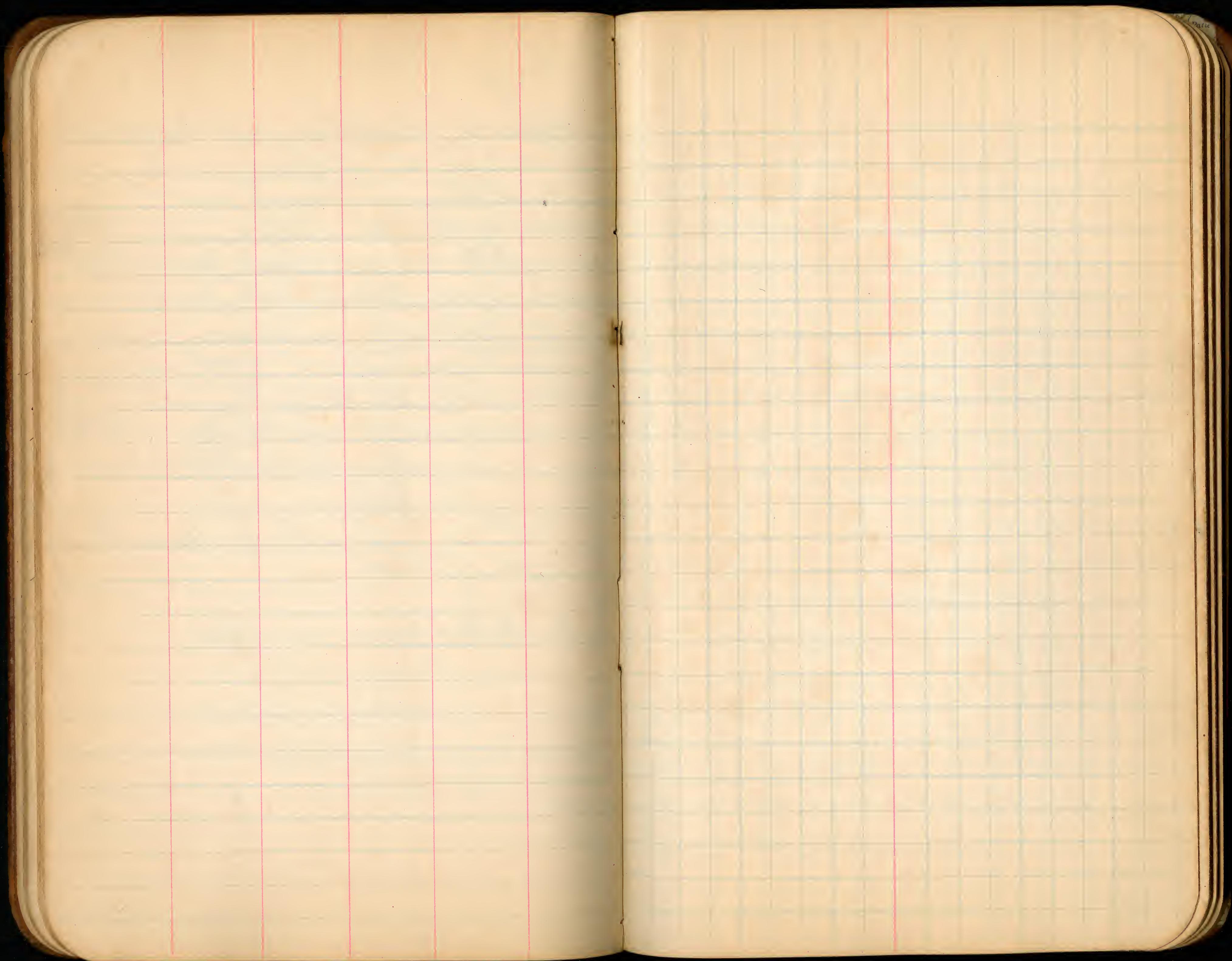
Egg. Jan. 24.

Diameter $1/2$ inch. A little more
than half of it "yolk."

Tadpole half inch long, white
as is the yolk; actively moves
his tail & body.

Kept on leaf in damp box, with
layer of moss.

A. killed Jan. 25, 1916.



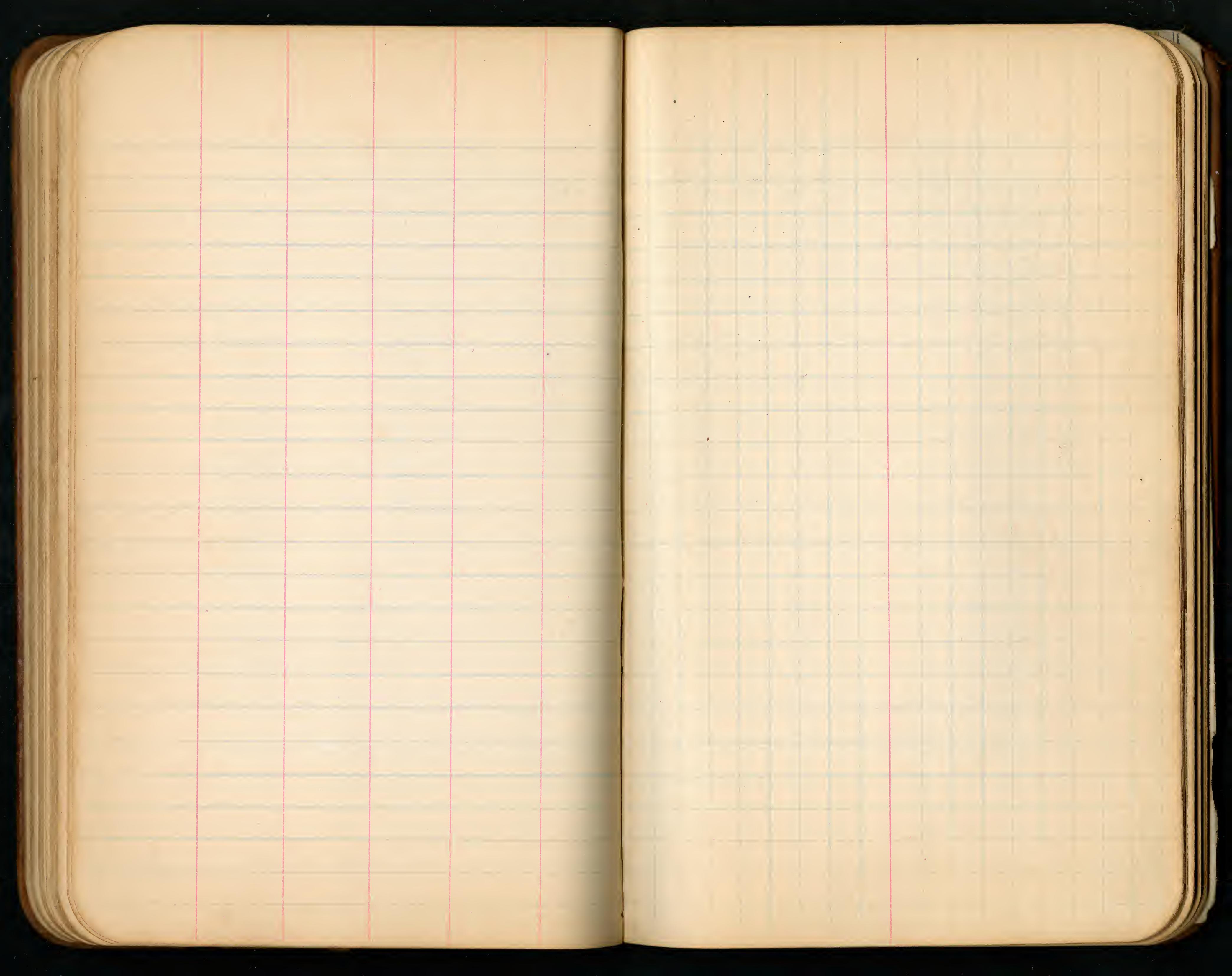
H. A. Brister's Specimens

ERRETT R. NEWBY
SECRETARY AND REGISTRAR

THE UNIVERSITY OF OKLAHOMA

NORMAN

OFFICE OF SECRETARY AND REGISTRAR



often given to devil;
chained to caves in bush.

They are also a devil today
the past. ~~dead~~ ^{dead} ~~dead~~ ^{dead} ~~dead~~ ^{dead} ~~dead~~
island. ^{Live on a}
Land said when one dies on
land the spirit goes to island
& drifts away to an unknown
place to the north & defeats
the spirits & then comes back.
when one is seriously ill. Looks
like a steamer but has over - net
trees on it

"Sun down" - Solomon I
Started in rain for ~~Kasaga~~
~~Nasagai~~. Up hill off
trail. Best of hill off
(Solomonie patch of trees etc
Birch, Elm, Amur horn etc.
Horn Berry) ~~open woods. ferns. vines!~~
down. playful wade.
out Black Lizard, Bulimus,

that's
Peace!
Toopley to money belong
time Indika. I like
stop deer".

Emerged, trail again.
tickle out broad bags,
small fish, sand,

Suraga (Nasagai)
Amurias, photo!

Brilliant
horns? ^{big} ~~big~~. Fisherman

Gagwona.
Matam vanna.

Moth
Spuchi.
A moth with ^{pink} ~~pink~~
"tangs", long ^{pink} ~~pink~~
Spuchi of ^{pink} ~~pink~~
Matam ^{pink} ~~pink~~
O. ^{pink} ~~pink~~ ^{pink} ~~pink~~
ai ^{pink} ~~pink~~
Vi ^{pink} ~~pink~~

big eye not fire large moth
& big body.
Name now Hawn.
Grabs by shoulder & eats
them raw.
Not seen lately.
Lives in hollow of big tree.

down. Bottles & no le
streams. Hatchet heat. Human
walk in saddle. Grass feet
thick. Parrot ^{pigeon blue}
staply bird, & many
worms beneath rocks. Vegetation
Bulbous, dense,
land crab.
In village 40 baskets of
food as presents (10 men
in village).

At night the gib in
the village came in
and drove of gagwona,
mudje from village.
Nabala 2 story giant.

In the land was once a
big devil of Nabala or owl
of he ate the people on
this side there was
lots of food on opposite
side of island &
vice versa.

Name Cilobali.
Census of food (tubs - not

Gaganawa.

Matani vanna. A. sara.

With

Spuck.

A woh who was!

"Tambu", law

Spuck of giving

Matana knows with.

O. sara. O. ya - ya
ai.

Kimaka

nest. of fire large moth
big eyes shot fire large moth
& big belly.

Name now Name.

Grabs by shoulder & eats
them raw.

Not seen lately.

Lives in hollow of big tree.

down.

Bottle gourd
Streams. Hatch heat. Human
walk in saddle. Grass flat
thick. Pans blue
stuff split and weevily.
now 5 weeks. Digestion.
But 5 cent.

San

here
food to
in will.

Get out
the valley
and show
much from
Medal's s.

In the land
big devil & fire
if he ate the p. he on
this side there was
lots of food on opposite
side of island
rice vosa -

Name Cilobali.

Crumb of food (this - not

Sonati.

Cliff entrance of through
fine grove of through
stone fence.

Antook from village.
Break fast - mango.

Woodward.

Yangona.

Whales teeth.

Food.

2 on big baskets. two
Yangona tins.

Whole baked pig.

We sit at chairs open.
beneath mango tree

Men of village approach
smell of pig.

Pig deeply buried with
small knife. Rare

Smash. Fish; curvy. corned
beef.

Afterwards another presentation
by people of other village.
Speech by Roko

In company with S. J. S.
Solomon boy took walk
along cliff, up hillock
yangona fields, via kava
bush. Cava, Evansid.
Thimb "

green work, walking sticks.
Cicadas, 3 species shells.
Whip scorpions. ^{Burrowing} Iguana.
Fresh water shells in rain
pool.

Mege Duke

Up mountain "Burke Cen"
S. J. Wilson, best boy
start at 10° in forest
steep climb, rain, slippery
& ~~fall~~ few trees to hold on
to steep climb. At
top forest. Top of crest
of mountain. Mat on mud covering

found everyone chewing
coca, a half century of
family occupy the
town.

Hammer seals eating
mangrove pods.
Swift crab - hole in
sand in a tree - bottled.
Bogged down hillside.

Colyotes talcum ^{Ivi mits} _{the chestnut}
"Slaby", "Hilo" on beach
Playful girls. Blackened
our faces. Greeted us
as we went to boat.
Roko not to judgment.

O'Connor
Landed at ~~Harbor~~
Valia, one at 7.00. block
on the beach; first wind.

On Moke!
In morning left on
cutter "givabulow" for
light house - Solo.

Small islands all
about off Ans. then

a couple of bare rocks.
Ruff on all sides. Dead
calm & hot.
Reached light house at dark.
Enclosed in circular reef -
stall. Best place for shark
(worst in Fiji).

Light house latest pattern,
all steel. View of reefs from
above by moonlight.
A few of reefs of volcanic
rock, ten feet above water
at low tide. No landing
place. Rough rocks.
Two Hindus & one
woman. Changed every
two or three months. No
boat - can't run away.

In 4th mile through mangrove
like navigating a forest
(up to two feet deep) to
bay.

Swarms of Hydrobates
(immature) in bay near
the mangroves. Companion
too hurried for me to
catch many.

Comodo

On beach. Regulation
church. water through
town. Shrimps
abundant to the boat.
Between this & the last
town the coast has been
maggie-baited. Good ripples
& hills.

Several other towns passed
all the same. The N. M. P.'s
boat races with us. It
capsized on a time,
putting every one in
the water. Worse

lost his ladies purse, but
saved his gold watch
(16 shillings) by putting it
in his mouth.

One Indian was one of
the crew before but
big sailor & often absent in
the boat until one man
brought it.

W Babea

On beach. Duke until
midnight, then singers
departed to house next
door & kept it up.
Coast rocky in places;
lagoon narrow; hills in
some places bare. Many
wastal islands. South.

Mata ^{and} San Leon

On broad bay, with hills
across. Walked over to

man in the house has on a stringlet.

Japanese mat has a line of tiger. Beautiful to the eye.

Boys sit in big house also & have a noisy meal.

Mike insisted upon it was very good.

Two girls

Prawns, beans etc for breakfast. Then we walked over a steep hill to Ovora, & received some more presents, incl. a very green watermelon. Bush had not eaten, so dined on the usual.

Wukhau. Also on hill. Small flour, corrugated roofed, board lined etc.

Photos of kid

~~Jonkey~~ ~~Dom~~ tree
through forest "We we"
Liu Oma.
Small, on hill side.
Generally one chair in village
in hot corrugated house

Joma.

By stream. Boat across.
Photo of church

"Tidrai" t id rai. Only jumping pony.

Fine trail, through very good date beds (lots of water. To enclosed market bay. Oma store.iffle. Three drunks & goods below. Seven pieces.

Boat waiting. From little girl has a Mike - soft singing. But tattooed with row of dots on arm & initials. Poor work. Emma photos. star. Photo. Her on back. Japan. Yagoma

Beautiful little boy.
Garrison.

Mataro "Ho ho;"
Also on the hill. Food
(some kind) presented
incl. yangona root
Carried away in baskets.
Straight haired natives!

Kam a.
Well inland. Shady
trail dalo patches. More
food. At place slaughtered
of chicken, after our
lente, left for cap.
Boy brought them
big bread of tapira, is long,
drawn out. smells.

Small church.
On shores of bay. Mountain
shelf, with steep hills about.
Narrow valley leading into
the hills, with stream,
stone banked along which village
is located. Voices aken
owing to furnaces. Pots

Sort of Guakan meeting here.
Lam colors given the two
men Yangona.

"Q sara, Q ya, Ya ay,
Tinuka"
Some food with pudsing
of tapira & creos root oil.
Good! Normal chicken.

Kawita
Stayed until dark for
Yangona.
Then walked in moon light
over very good trail to
So So ("wind" in Tigran). Two
planks across gallery on the
plant as usual, China store
Put up in fine big house
with a table in it &
had dinner of turned
soup, chicken, dalo, bread
& strawberry jam.

Presentation of article with
to Roko by Buli boy

• my son's - you are
my son of your mother
and this is not the man
I am going to be your
wife's son.

and you will be
my wife's son
and you will be
my wife - you will be
my wife.

you will be
my wife's son
and you will be
my wife.

you will be
my wife's son
and you will be
my wife - you will be
my wife.

you will be
my wife's son
and you will be
my wife.

you will be
my wife's son
and you will be
my wife.

you will be
my wife's son
and you will be
my wife - you will be
my wife's son
and you will be
my wife.

you will be
my wife's son
and you will be
my wife.

you will be
my wife's son
and you will be
my wife.

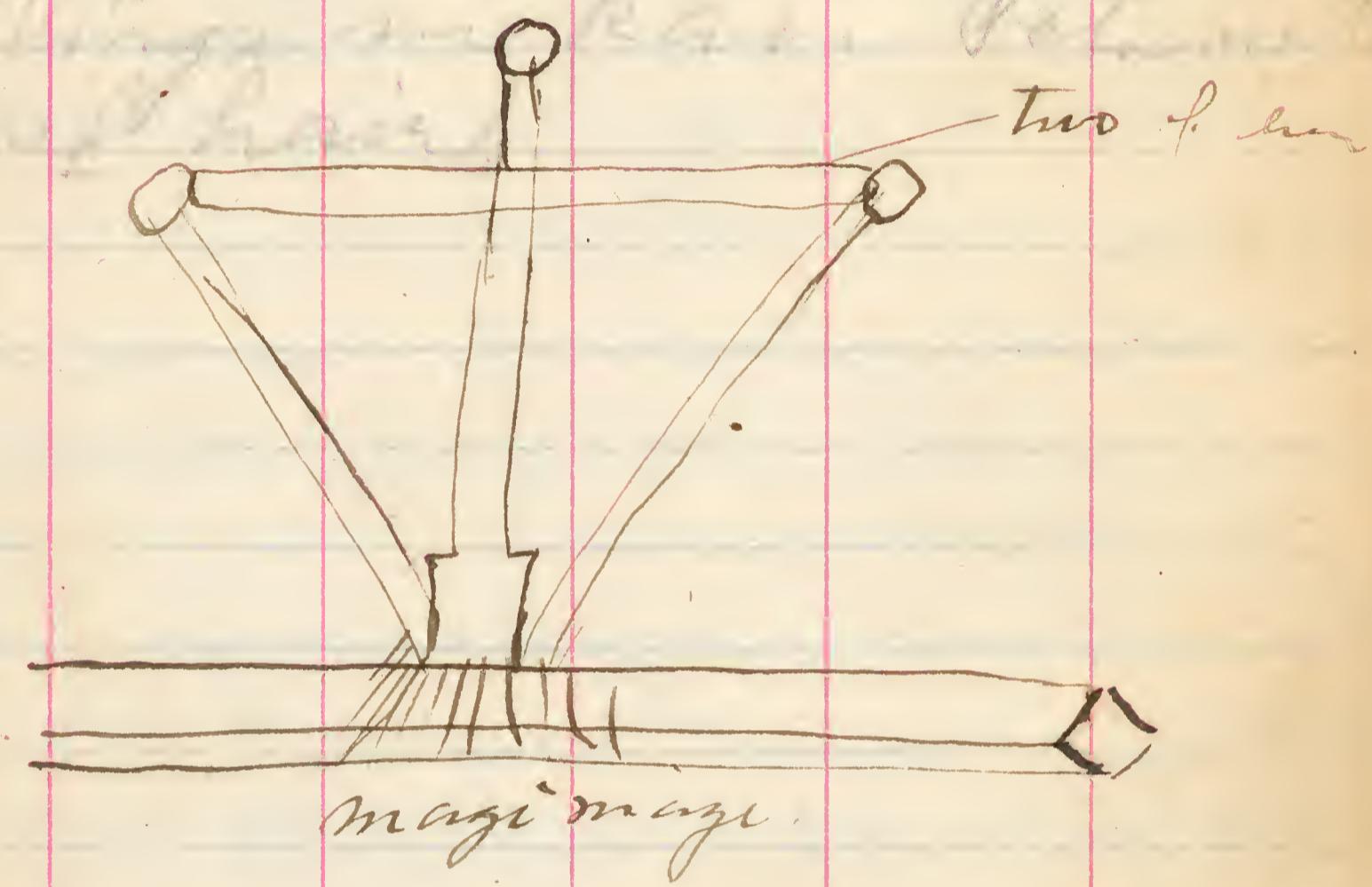
you will be
my wife's son
and you will be
my wife.

you will be
my wife's son
and you will be
my wife.

you will be
my wife's son
and you will be
my wife.

you will be
my wife's son
and you will be
my wife.

you will be
my wife's son
and you will be
my wife.







卷之三



THE PACIFIC OCEAN
WITH UNITED STATES POSSESSIONS,
OCEANIC S.S. CO'S LINE TO.

AWAII SAMOA AND AUSTRALIA

THE MATTHEWS-NORTHRUP WORKS, BUFFALO, N.Y.

THE W. M. THOMAS-NORTHRUP WORKS, BUFFALO, N.Y.



A SOUTH SEA ISLAND LANE
LINED WITH PALMS AND TROPICAL FRUITS

Chicago, and at the Mid-winter Fair in San Francisco. They know the warm brown skins, the bushy black hair, except where it is stained a dull golden brown by the plentiful bleachings with lime. They have heard their plaintive and warlike songs, their dances with beating of clubs and spears in time to the music; have seen the comely women and their gentle swayings in rhythm with the more active dances of the men. They know, too, their costumes, the lava-lava of tapa, mulberry bark cloth, about the loins, the necklaces, armlets, and anklets, and the tall and fantastic headdresses of the warriors.

Besides this costume they wear an abundant coat of cocoanut oil,—which causes them to glisten as if varnished—and the men are tattooed.

But all these things give but a superficial idea

without the least danger of receiving anything but the kindest, most courteous, nay, even the most warmly hospitable treatment.

The misleading nature of maps has long been realized. Little dots in the Pacific are supposed to be islands which one may reach by rowing from one to the other in fifteen minutes. It is something of a surprise to learn that in reality they lie 100 miles, and more, apart.

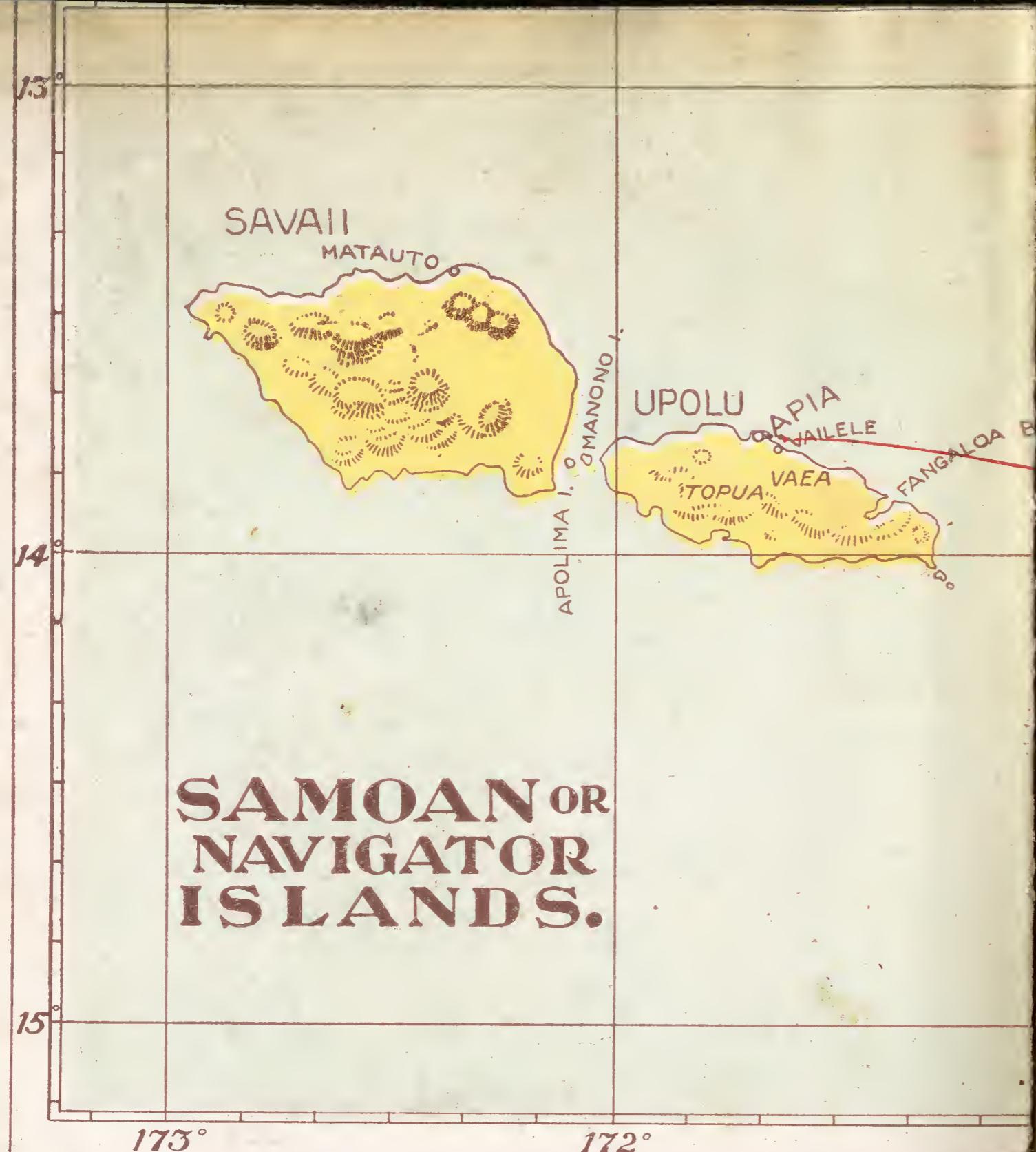
There is some change in the temperature when the wooded heights of Tutuila are left behind. If it happens to be the spring of the northern latitudes, it is the aftermath of autumn in the Antipodes—the pleasantest season to visit the colonies. The thick clothing that was put off at Hawaii is once more donned and found most acceptable; there is an invigorating quality in the air not felt in the tropics; the languor that has made the comfort of the deck chair peculiarly inviting, vanishes as by magic, and the arrival in Sydney is anticipated with fresh energy and interest.

S. S. Sonoma, on her first voyage in the new service of the Sydney Short Line, was met at Pango Pango by 4,000 Samoans, who came from a radius of 500 miles, wearing full warpaint and feathers, and for three hours entertained the passengers with native songs and dances. Following the dances a big native feast was held, winding up with the passing of a huge bowl of Kava, the native drink, of which all partook.

The steaming time of eighteen days and fourteen hours is being maintained by the Sonoma and Ventura between San Francisco and Sydney, on both outward and homeward voyages.

On her outbound trip the S. S. Sonoma from Pango Pango sighted a volcano in full eruption on a barren Tongan Island, making a beautiful spectacle at night. Norfolk Island and Lord Howe Island were also sighted on the way to Sydney.





the coral polyp. They are thirteen in number, as generally counted,—though, depending on where one draws the line between an islet and a mere rocky crag, they are sometimes stated as more, and sometimes less, down to nine. Three, however, are by far the most important in size and population. They lie between $13^{\circ} 30'$ and $14^{\circ} 20'$ south latitude, and between 169° and 173° west longitude, and are therefore thoroughly tropical, and lie pretty near that mysterious line where the ship suddenly sails out of one day into the day before.

The third of the larger islands lies about forty miles to the windward, east, of Upolu. Tutuila, seventeen miles long and two hundred and thirty in circuit, is interesting to Americans, containing the harbor of Pango Pango.



50° 160° South. 170° 180°
Invercargill. Dunedin.

• coral
• reef
• reef
• reef
• reef
• reef
• reef

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22

FOREST HILLS, MASS.

~~Coratobrachus~~*Rana opisthoton**Ceratophry斯 guppyi* Boul.*C. solomonis* Boul.*Ryla dolichopsis* (Cope.) Solomons. etc. not
recorded from Fiji.*Sauvage**Gymnodactylus pelagicus* Gerad*Peropis oceanicus* (Lesson)*Lepidodactylus ceylonensis* Boul.*Gonocephalus godeffroyi* Peters.

other species common on nearby Islands.

Emoia cyanura (Lesson)*Emoia nigrum* (Homb. & Jacq.)*Leiolepis viridis* (Peters)*Cryptoblepharus boutonii* (Desjardin)*Enygrus bibronii* Homb. & Jacq.*Hemidophis pictus* Gmelin. (should
be found.)

June 25th, 1915

Ogmodon vitianus Peters

Crocodylus porosus Schneider

Thos. C. U. Stockwell.

Atchison, Kan.
Twp.

James B. Turner.

"NASESE,"
SUVA, FIJI.

Seven portraits
of Five Girls
in the Nudie

N. Hagen.

Nouméa.

N.^ole Calédonie.

Reports on Coconut Islands

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7-1-0

Mr. Jas. Thomas,

MANAGER.

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